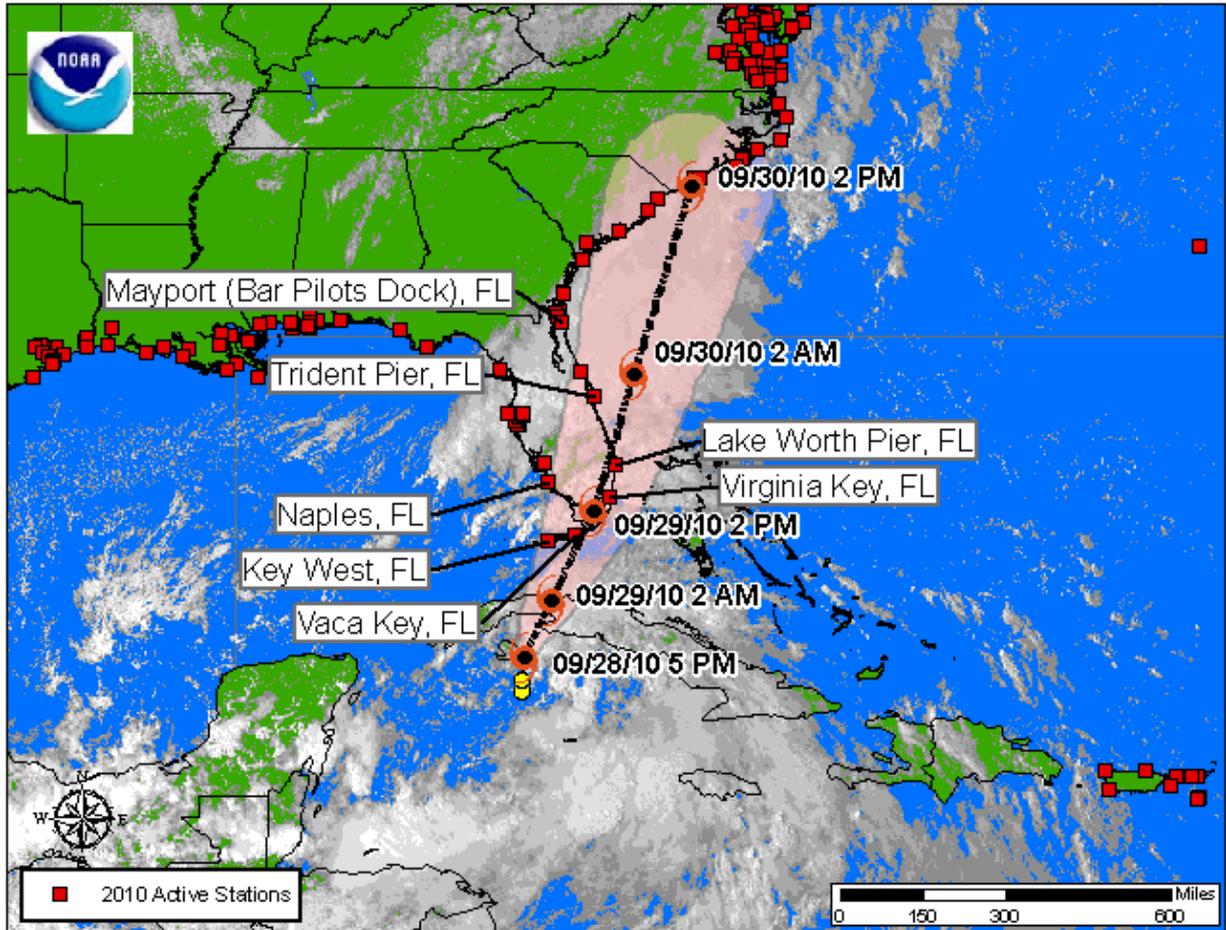




Tropical Depression SIXTEEN QuickLook  
Posted: 18:00 EDT 09/28/2010

NOAA and NOAA Partnership Stations Relative to the Storm



**Storm Analysis**

As of 09/28/2010 1800 EDT, water levels across southern Florida are at or near predicted. Barometric pressure is gradually falling across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Key West, FL Next predicted high tides are 2.12 ft (0.65 m) at 09/29/2010 01:19 EDT and 1.30 ft (0.40 m) at 09/29/2010 15:16 EDT.

Vaca Key, FL Next predicted high tides are 1.01 ft (0.31 m) at 09/28/2010 20:08 EDT and 1.35 ft (0.41 m) at 09/29/2010 05:40 EDT.

Virginia Key, FL Next predicted high tides are 2.32 ft (0.71 m) at 09/29/2010 00:56 EDT and 2.37 ft (0.72 m) at 09/29/2010 13:53 EDT.

Naples, FL Next predicted high tides are 3.09 ft (0.94 m) at 09/29/2010 02:52 EDT and 2.32 ft (0.71 m) at 09/29/2010 18:18 EDT.

Lake Worth Pier, FL Next predicted high tides are 2.99 ft (0.91 m) at 09/28/2010 23:50 EDT and 3.11 ft (0.95 m) at 09/29/2010 12:41 EDT.

Trident Pier, FL Next predicted high tides are 3.38 ft (1.03 m) at 09/28/2010 23:51 EDT and 4.25 ft (1.29 m) at 09/29/2010 12:27 EDT.

Mayport (Bar Pilots Dock), FL Next predicted high tides are 4.67 ft (1.42 m) at 09/29/2010 00:41 EDT and 5.37 ft (1.64 m) at 09/29/2010 13:10 EDT.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook Homepage](#).

Analyst: PFF

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**SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:**

**TROPICAL DEPRESSION SIXTEEN ADVISORY NUMBER 2**

**500 PM EDT TUE SEP 28 2010**

**...TROPICAL DEPRESSION HAS CHANGED LITTLE IN INTENSITY SO FAR...**

**WATCHES AND WARNINGS**  
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**A TROPICAL STORM WARNING IS IN EFFECT FOR...**

- \* JUPITER INLET SOUTHWARD TO EAST CAPE SABLE AND FLORIDA BAY**
- \* THE FLORIDA KEYS**

**A TROPICAL STORM WATCH IS IN EFFECT FOR...**

- \* NORTH OF JUPITER INLET TO SEBASTIAN INLET FLORIDA**
- \* NORTH OF EAST CAPE SABLE TO CHOKOLOSKEE FLORIDA**

**A TROPICAL STORM WARNING MEANS THAT TROPICAL STORM CONDITIONS ARE EXPECTED SOMEWHERE WITHIN THE WARNING AREA WITHIN 36 HOURS.**

**A TROPICAL STORM WATCH MEANS THAT TROPICAL STORM CONDITIONS ARE POSSIBLE WITHIN THE WATCH AREA...GENERALLY WITHIN 48 HOURS.**

**FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.**

**DISCUSSION AND 48-HOUR OUTLOOK**  
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**AT 500 PM EDT THE CENTER OF TROPICAL DEPRESSION SIXTEEN WAS LOCATED ABOUT 330 MI SSW OF MIAMI FLORIDA. THE DEPRESSION IS MOVING TOWARD THE NORTH-NORTHEAST NEAR 10 MPH. ON THE FORECAST TRACK THE CENTER OF THE TROPICAL CYCLONE WILL CROSS CUBA TONIGHT AND BE NEAR OR OVER SOUTHEASTERN FLORIDA BY WEDNESDAY AFTERNOON. HOWEVER...IN THIS CASE MOST OF THE STRONG WINDS AND HEAVY RAINS ARE OCCURING A COUPLE HUNDRED MILES TO THE EAST AND SOUTHEAST OF THE CENTER.**

**MAXIMUM SUSTAINED WINDS ARE NEAR 35 MPH WITH HIGHER GUSTS. SOME STRENGTHENING IS FORECAST DURING THE NEXT 12 TO 24 HOURS AND THE DEPRESSION IS EXPECTED TO BECOME A TROPICAL STORM TONIGHT OR WEDNESDAY... BEFORE MERGING WITH A FRONTAL ZONE ON THURSDAY.**

**AN AIR FORCE RESERVE UNIT HURRICANE HUNTER AIRCRAFT REPORTED A MINIMUM CENTRAL PRESSURE OF 999 MB...29.50 INCHES.**

**HAZARDS AFFECTING LAND**  
-----

**RAINFALL...RAIN ACCUMULATIONS OF 4 TO 8 INCHES ARE POSSIBLE OVER PORTIONS OF EXTREME SOUTHERN FLORIDA AND THE FLORIDA KEYS.**

**WIND...TROPICAL STORM CONDITIONS WILL BE AFFECTING THE WARNING AREAS IN THE CARIBBEAN TODAY AND TONIGHT...AND SPREAD INTO THE BAHAMAS AND PORTIONS OF SOUTH FLORIDA ON WEDNESDAY.**

**TORNADOES...ISOLATED TORNADOES ARE POSSIBLE OVER SOUTHEASTERN FLORIDA AND THE FLORIDA KEYS THROUGH TONIGHT.**

**FORECASTER PASCH**

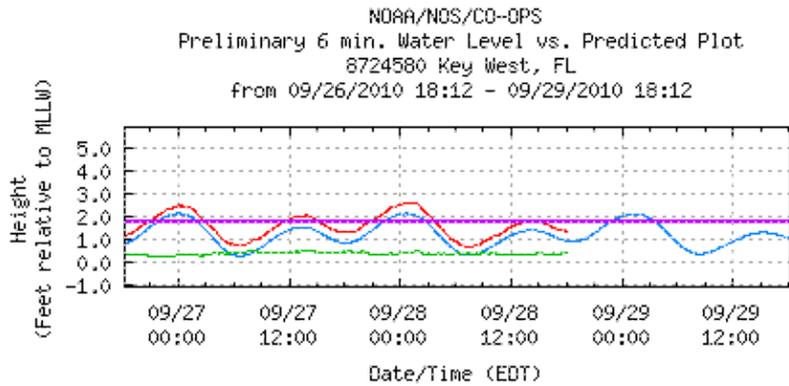
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Key West - Water Level](#), [Key West - Barometric](#), [Key West - Air/Water Temp](#), [Vaca Key - Water Level](#), [Vaca Key - Winds](#), [Vaca Key - Barometric](#), [Vaca Key - Air/Water Temp](#), [Virginia Key - Water Level](#), [Virginia Key - Winds](#), [Virginia Key - Air/Water Temp](#), [Naples - Water Level](#), [Naples - Winds](#), [Naples - Barometric](#), [Naples - Air/Water Temp](#), [Lake Worth Pier - Water Level](#), [Lake Worth Pier - Winds](#), [Lake Worth Pier - Barometric](#), [Lake Worth Pier - Air/Water](#)

Tropical Depression SIXTEEN QuickLook, POSTED 18:00 EDT 09/28/2010

Temp, Trident Pier - Water Level, Trident Pier - Winds, Trident Pier - Barometric, Trident Pier - Air/Water Temp, Mayport (Bar Pilots Dock) - Water Level,

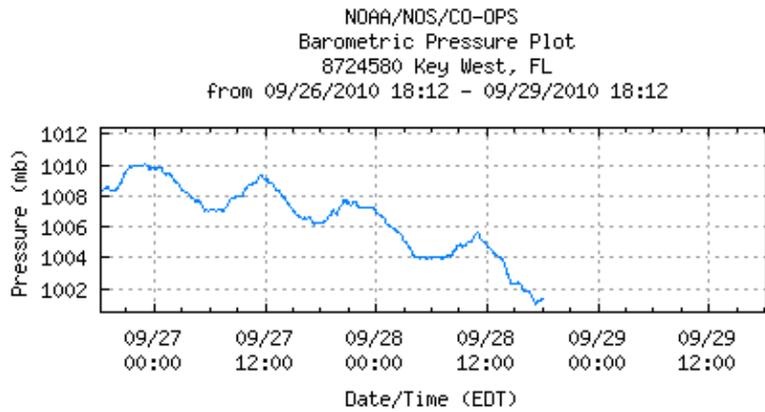
**Key West, FL** - [Return to List](#)



Predicted WL ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 09/28/2010 18:06 (EDT)  
 Relative to **MLLW**: **Observed: 1.36 ft. Predicted: 0.93 ft. Residual: 0.43 ft.**  
 Historical Maximum Water Level: Oct 24 2005, 3.14 ft. above **MHHW**

**Key West, FL** - [Return to List](#)

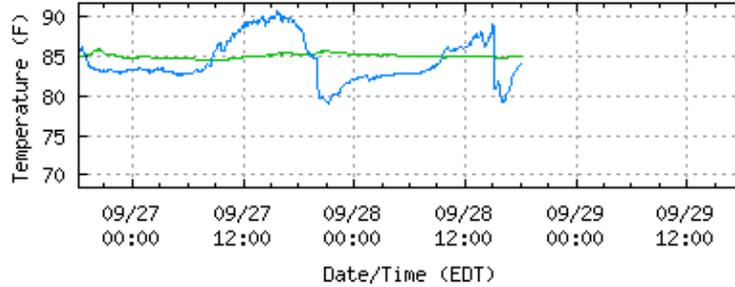


barometric pressure ———

Last Observed Sample: 09/28/2010 18:06 (EDT)  
**Barometric Pressure: 1001.3 mb**

**Key West, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
 Air/Water Temperature Plot  
 8724580 Key West, FL  
 from 09/26/2010 18:12 - 09/29/2010 18:12



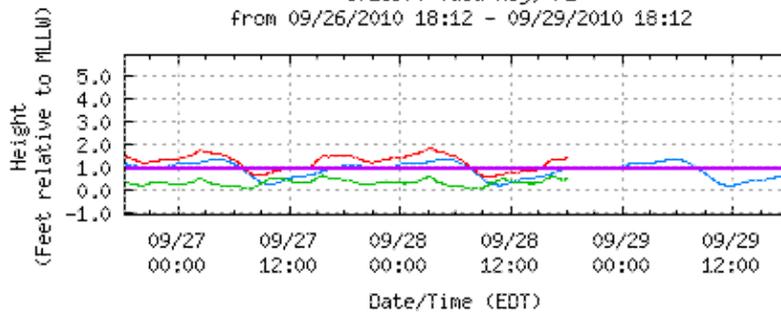
water temp. — air temp —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Water Temperature: 84.9° F Air Temperature: 83.8° F

**Vaca Key, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
 Preliminary 6 min. Water Level vs. Predicted Plot  
 8723970 Vaca Key, FL  
 from 09/26/2010 18:12 - 09/29/2010 18:12



Predicted WL — (Obs-Pred) —  
 Observed WL — MHHW —

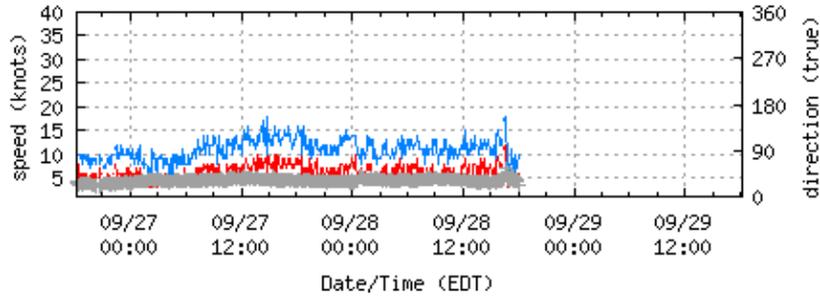
Last Observed Sample: 09/28/2010 18:06 (EDT)

Relative to **MLLW**: Observed: 1.43 ft. Predicted: 0.93 ft. Residual: 0.50 ft.

Historical Maximum Water Level: Oct 7 1974, 1.42 ft. above **MHHW**

**Vaca Key, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Wind Speed/Gusts/Dir  
8723970 Vaca Key, FL  
from 09/26/2010 18:12 - 09/29/2010 18:12



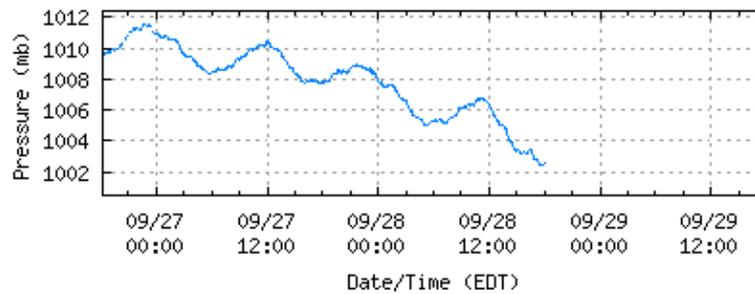
speed — gusts — direction +

Last Observed Sample: 09/28/2010 18:06 (EDT)

Wind Speed: 9 knots Gusts: 12 knots Direction: 021° T

**Vaca Key, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8723970 Vaca Key, FL  
from 09/26/2010 18:12 - 09/29/2010 18:12



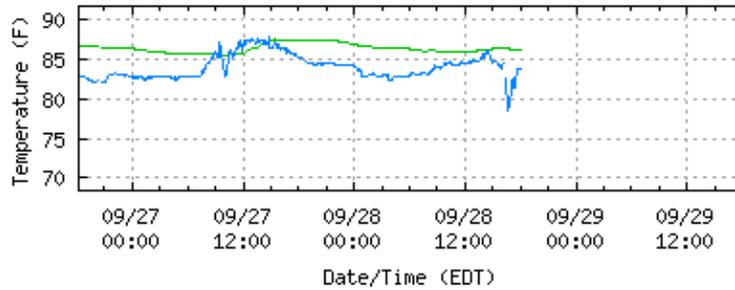
barometric pressure —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Barometric Pressure: 1002.7 mb

**Vaca Key, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
 Air/Water Temperature Plot  
 8723970 Vaca Key, FL  
 from 09/26/2010 18:12 - 09/29/2010 18:12



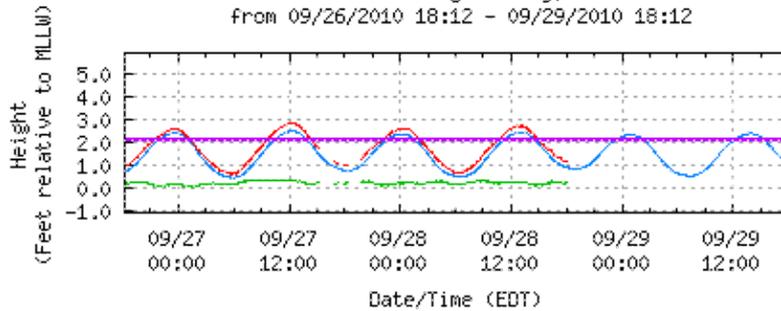
water temp. — air temp —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Water Temperature: 86.2° F Air Temperature: 82.9° F

**Virginia Key, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
 Preliminary 6 min. Water Level vs. Predicted Plot  
 8723214 Virginia Key, FL  
 from 09/26/2010 18:12 - 09/29/2010 18:12



Predicted WL — (Obs-Pred) —  
 Observed WL — MHHW —

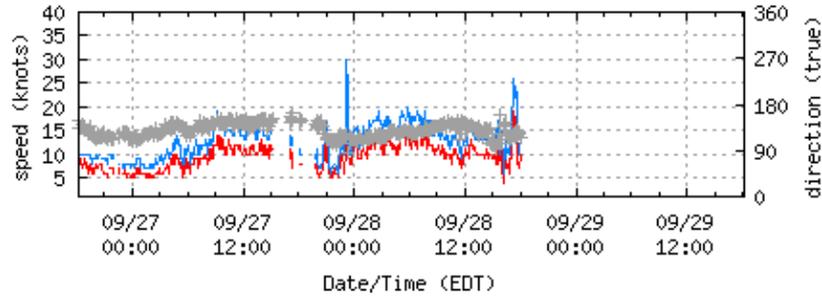
Last Observed Sample: 09/28/2010 18:12 (EDT)

Relative to **MLLW**: Observed: 1.14 ft. Predicted: 0.89 ft. Residual: 0.25 ft.

Historical Maximum Water Level: Oct 24 2005, 2.58 ft. above **MHHW**

**Virginia Key, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Wind Speed/Gusts/Dir  
8723214 Virginia Key, FL  
from 09/26/2010 18:12 - 09/29/2010 18:12



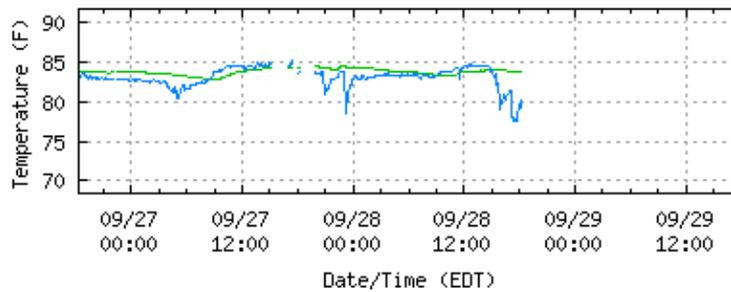
speed — gusts — direction +

Last Observed Sample: 09/28/2010 18:12 (EDT)

Wind Speed: 15 knots Gusts: 18 knots Direction: 095° T

**Virginia Key, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8723214 Virginia Key, FL  
from 09/26/2010 18:18 - 09/29/2010 18:18

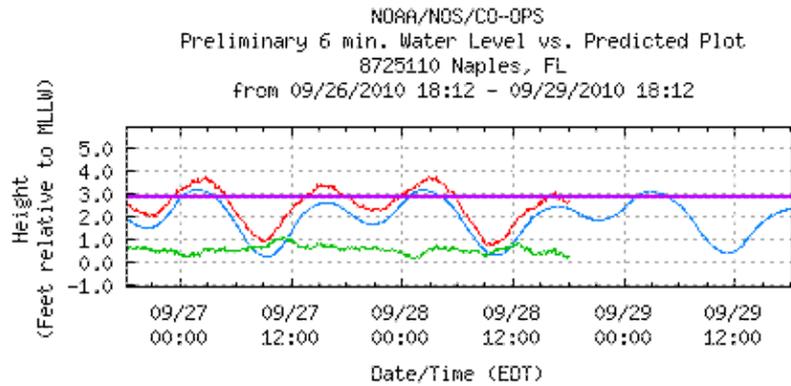


water temp. — air temp —

Last Observed Sample: 09/28/2010 18:12 (EDT)

Water Temperature: 83.8° F Air Temperature: 79.3° F

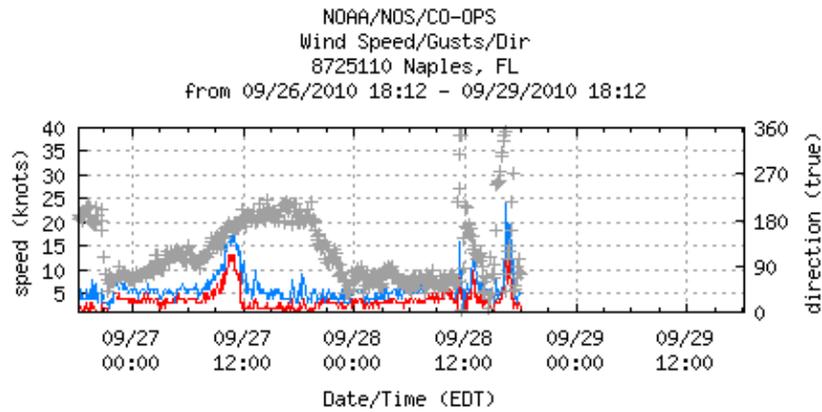
**Naples, FL** - [Return to List](#)



Predicted WL ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 09/28/2010 18:06 (EDT)  
 Relative to **MLLW**: **Observed: 2.67 ft. Predicted: 2.33 ft. Residual: 0.34 ft.**  
 Historical Maximum Water Level: Dec 21 1972, 3.11 ft. above **MHHW**

**Naples, FL** - [Return to List](#)

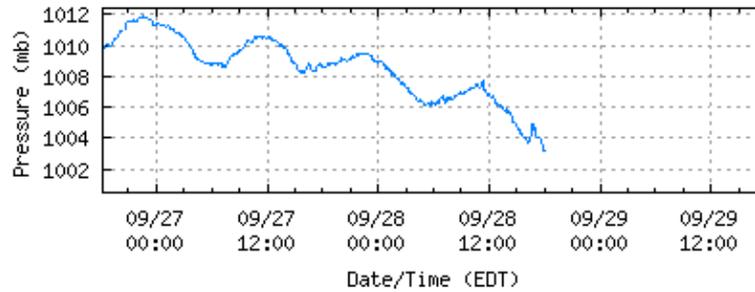


speed ——— gusts ——— direction +

Last Observed Sample: 09/28/2010 18:06 (EDT)  
**Wind Speed: 4 knots Gusts: 7 knots Direction: 087° T**

**Naples, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8725110 Naples, FL  
from 09/26/2010 18:12 - 09/29/2010 18:12



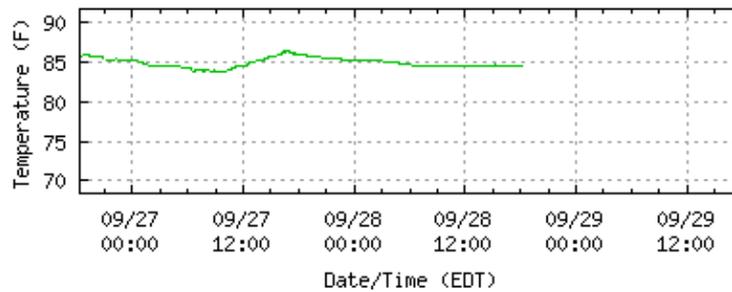
barometric pressure —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Barometric Pressure: 1003.2 mb

**Naples, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8725110 Naples, FL  
from 09/26/2010 18:18 - 09/29/2010 18:18

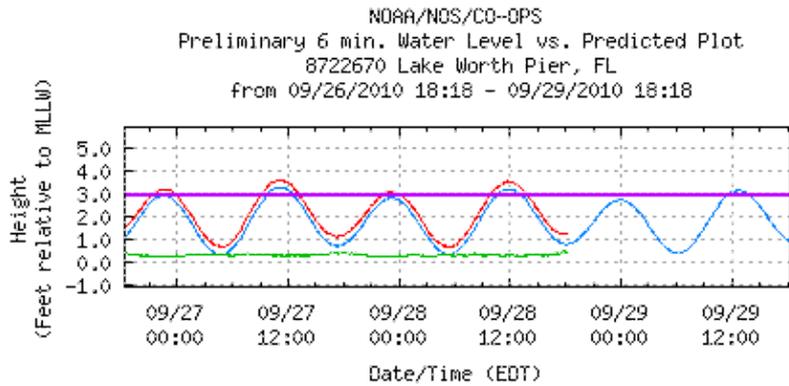


water temp. — air temp. —

Last Observed Sample: 09/26/2010 18:18 (EDT)

Water Temperature: 85.8° F Air Temperature: n/a

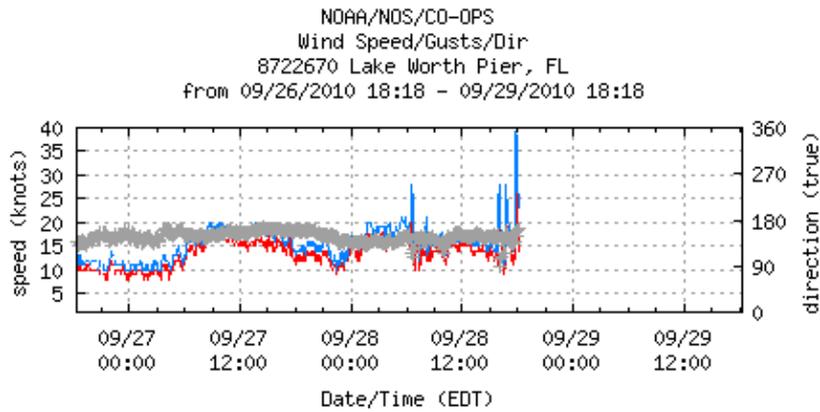
**Lake Worth Pier, FL** - [Return to List](#)



Predicted WL ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 09/28/2010 18:06 (EDT)  
 Relative to **MLLW**: **Observed: 1.26 ft. Predicted: 0.80 ft. Residual: 0.46 ft.**  
 Historical Maximum Water Level: Nov 23 1984, 1.88 ft. above **MHHW**

**Lake Worth Pier, FL** - [Return to List](#)

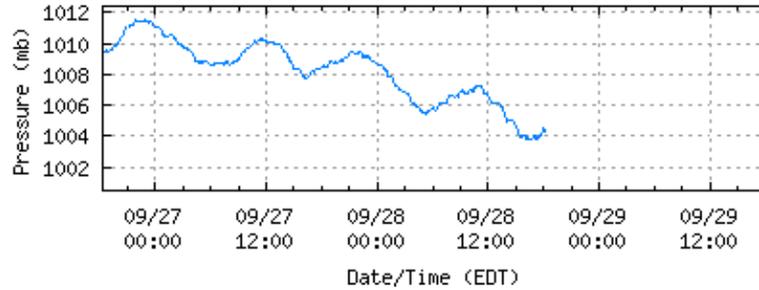


speed ——— gusts ——— direction +

Last Observed Sample: 09/28/2010 18:06 (EDT)  
**Wind Speed: 14 knots Gusts: 23 knots Direction: 163° T**

**Lake Worth Pier, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8722670 Lake Worth Pier, FL  
from 09/26/2010 18:18 - 09/29/2010 18:18



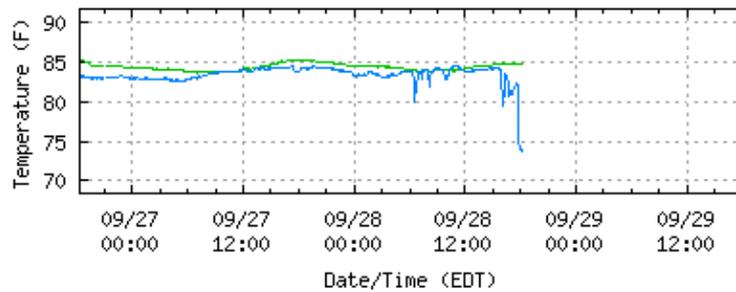
barometric pressure —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Barometric Pressure: 1004.3 mb

**Lake Worth Pier, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8722670 Lake Worth Pier, FL  
from 09/26/2010 18:18 - 09/29/2010 18:18

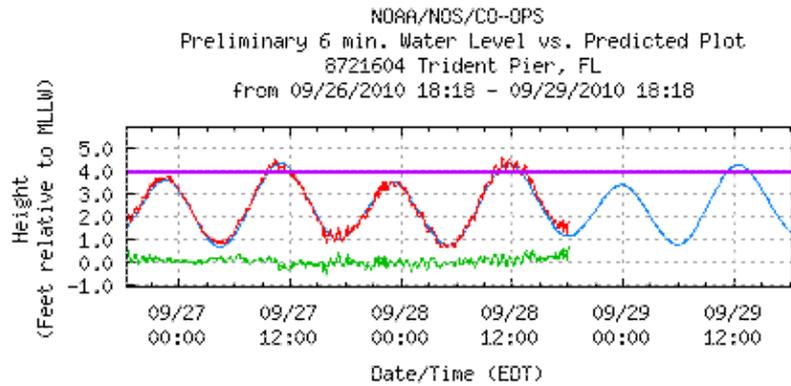


water temp. — air temp —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Water Temperature: 84.7° F Air Temperature: 73.6° F

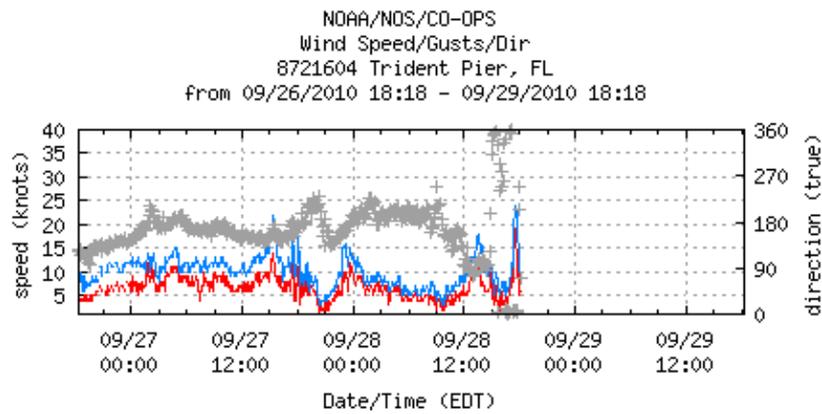
**Trident Pier, FL** - [Return to List](#)



Predicted WL ——— (Obs-Pred) ———  
 Observed WL ——— MHHW ———

Last Observed Sample: 09/28/2010 18:06 (EDT)  
 Relative to **MLLW**: **Observed: 1.78 ft. Predicted: 1.14 ft. Residual: 0.64 ft.**  
 Historical Maximum Water Level: Sep 26 2004, 4.13 ft. above **MHHW**

**Trident Pier, FL** - [Return to List](#)

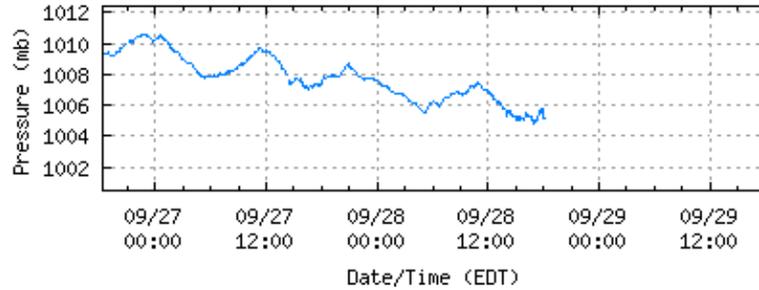


speed ——— gusts ——— direction +

Last Observed Sample: 09/28/2010 18:06 (EDT)  
**Wind Speed: 6 knots Gusts: 10 knots Direction: 071° T**

**Trident Pier, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Barometric Pressure Plot  
8721604 Trident Pier, FL  
from 09/26/2010 18:18 - 09/29/2010 18:18



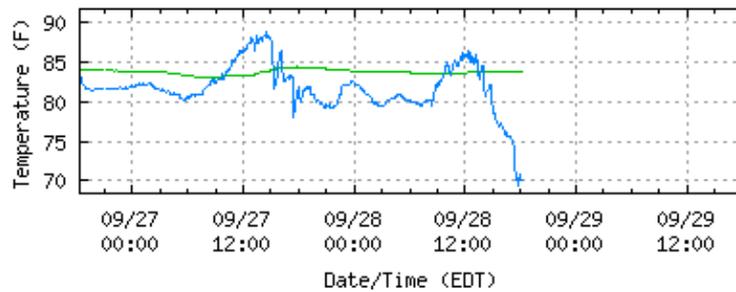
barometric pressure —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Barometric Pressure: 1005.2 mb

**Trident Pier, FL** - [Return to List](#)

NOAA/NOS/CO-OPS  
Air/Water Temperature Plot  
8721604 Trident Pier, FL  
from 09/26/2010 18:18 - 09/29/2010 18:18

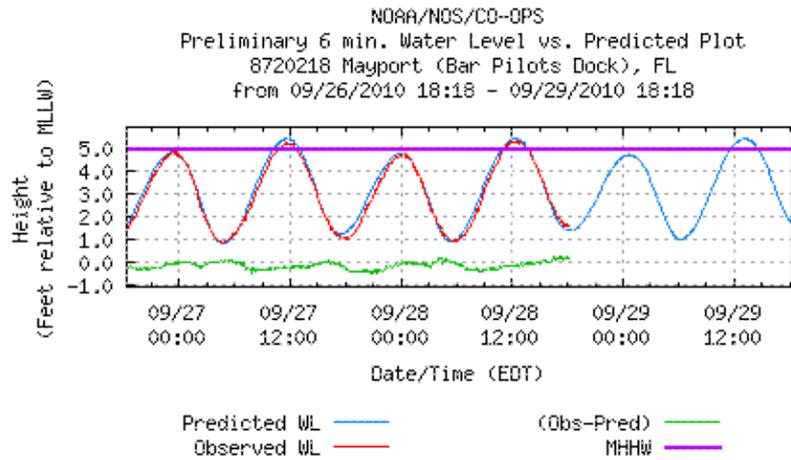


water temp. — air temp —

Last Observed Sample: 09/28/2010 18:06 (EDT)

Water Temperature: 83.8° F Air Temperature: 70.2° F

**Mayport (Bar Pilots Dock), FL** - [Return to List](#)



Last Observed Sample: 09/28/2010 18:06 (EDT)

Relative to **MLLW**: **Observed: 1.57 ft. Predicted: 1.39 ft. Residual: 0.18 ft.**

**Historical Maximum Water Level: Sep 27 2004, 2.48 ft. above MHHW**

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)  
National Oceanic and Atmospheric Administration | U.S. Department of Commerce